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**DECLARATION FOR NON-PROVISIONAL PATENT APPLICATION\***

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below at 201 et seq. beneath my name.

I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

**SYSTEM FOR CONTROLLING BIAS CURRENT IN LASER DIODES WITH IMPROVED SWITCHING RATES**

and for which a patent application:

☒ is attached hereto and includes amendment(s) filed on (if applicable)  
was filed in the United States on as Application No.

with amendment(s) filed on (if applicable)  
was filed as PCT international Application No. on and was amended under PCT Article 19 on (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED PRIOR TO THE FILING DATE OF THE APPLICATION			
APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
			YES NO
			YES NO
			YES NO

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

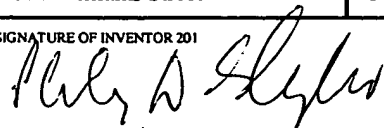
PROVISIONAL APPLICATION NUMBER	FILING DATE
60/408,587	September 5, 2002

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

NON-PROVISIONAL APPLICATION SERIAL NO.	FILING DATE	STATUS		
		PATENTED	PENDING	ABANDONED
10/188,575	July 2, 2002		X	

\* for use only when the application is assigned to a company, partnership or other organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

2 0 1	FULL NAME OF INVENTOR	LAST NAME Shapiro	FIRST NAME Philip	MIDDLE NAME D.	
	RESIDENCE & CITIZENSHIP	CITY Palo Alto	STATE OR FOREIGN COUNTRY CA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 2072 Williams Street	CITY Palo Alto	STATE OR COUNTRY CA	ZIP CODE 94306
	SIGNATURE OF INVENTOR 201 			DATE 9/21/2002	
2 0 2	FULL NAME OF INVENTOR	LAST NAME Case	FIRST NAME Daniel	MIDDLE NAME K.	
	RESIDENCE & CITIZENSHIP	CITY Gilroy	STATE OR FOREIGN COUNTRY CA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 1407 Casablanca Circle	CITY Gilroy	STATE OR COUNTRY CA	ZIP CODE 95020
	SIGNATURE OF INVENTOR 202			DATE	
2 0 3	FULL NAME OF INVENTOR	LAST NAME Nguyen	FIRST NAME The ' Linh	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY San Jose	STATE OR FOREIGN COUNTRY CA	COUNTRY OF CITIZENSHIP Canada	
	POST OFFICE ADDRESS	STREET 1650 Via Fortuna	CITY San Jose	STATE OR COUNTRY CA	ZIP CODE 95120
	SIGNATURE OF INVENTOR 203			DATE	
2 0 4	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE
	SIGNATURE OF INVENTOR 204			DATE	
2 0 5	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE
	SIGNATURE OF INVENTOR 205			DATE	

## DECLARATION FOR NON-PROVISIONAL PATENT APPLICATION\*

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below at 201 et seq. beneath my name.

I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

## SYSTEM FOR CONTROLLING BIAS CURRENT IN LASER DIODES WITH IMPROVED SWITCHING RATES

and for which a patent application:

X is attached hereto and includes amendment(s) filed on (if applicable)  
was filed in the United States on as Application No.

with amendment(s) filed on (if applicable)

was filed as PCT international Application No. on and was amended under PCT Article 19 on (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED PRIOR TO THE FILING DATE OF THE APPLICATION			
APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
			YES NO
			YES NO
			YES NO

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

PROVISIONAL APPLICATION NUMBER	FILING DATE
60/408,587	September 5, 2002

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

NON-PROVISIONAL APPLICATION SERIAL NO.	FILING DATE	STATUS		
		PATENTED	PENDING	ABANDONED
10/188,575	July 2, 2002		X	

\* for use only when the application is assigned to a company, partnership or other organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

201	FULL NAME OF INVENTOR	LAST NAME Shapiro	FIRST NAME Philip	MIDDLE NAME D.	
	RESIDENCE & CITIZENSHIP	CITY Palo Alto	STATE OR FOREIGN COUNTRY CA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 2072 Williams Street	CITY Palo Alto	STATE OR COUNTRY CA	ZIP CODE 94306
	SIGNATURE OF INVENTOR 201			DATE	
202	FULL NAME OF INVENTOR	LAST NAME Case	FIRST NAME Daniel	MIDDLE NAME K.	
	RESIDENCE & CITIZENSHIP	CITY Gilroy	STATE OR FOREIGN COUNTRY CA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 1407 Casablanca Circle	CITY Gilroy	STATE OR COUNTRY CA	ZIP CODE 95020
	SIGNATURE OF INVENTOR 202 <i>Daniel K Case</i>			DATE 29 OCT 2002	
203	FULL NAME OF INVENTOR	LAST NAME Nguyen	FIRST NAME The ' Linh	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY San Jose	STATE OR FOREIGN COUNTRY CA	COUNTRY OF CITIZENSHIP Canada	
	POST OFFICE ADDRESS	STREET 1650 Via Fortuna	CITY San Jose	STATE OR COUNTRY CA	ZIP CODE 95120
	SIGNATURE OF INVENTOR 203 <i>Thuy</i>			DATE Oct. 29, 2002	
204	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE
	SIGNATURE OF INVENTOR 204			DATE	
205	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE
	SIGNATURE OF INVENTOR 205			DATE	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Shapiro et al.

Application No.: To be assigned

Group Art Unit: To be assigned

Filed: Herewith

Examiner: To be assigned

For: SYSTEM FOR CONTROLLING BIAS  
CURRENT IN LASER DIODES WITH  
IMPROVED SWITCHING RATES

Attorney Docket No.: 9775-0130-999

Confirmation No.:

**POWER OF ATTORNEY BY ASSIGNEE  
AND EXCLUSION OF INVENTOR(S) UNDER 37 C.F.R. 3.71  
WITH STATEMENT UNDER C.F.R. 3.73(b)**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The undersigned assignee of the entire interest in the above-identified subject application hereby appoints: Berj A. Terzian (Reg. No. 20060), David Weild, III (Reg. No. 21094), Barry D. Rein (Reg. No. 22411), Charles E. McKenney (Reg. No. 22795), Philip T. Shannon (Reg. No. 24278), Francis E. Morris (Reg. No. 24615), Charles E. Miller (Reg. No. 24576), Gidon D. Stern (Reg. No. 27469), John J. Lauter, Jr. (Reg. No. 27814), Brian M. Poissant (Reg. No. 28462), Rory J. Radding (Reg. No. 28749), Stephen J. Harbulak (Reg. No. 29166), Donald J. Goodell (Reg. No. 19766), Thomas E. Friebe (Reg. No. 29258), Laura A. Coruzzi (Reg. No. 30742), Geraldine F. Baldwin (Reg. No. 31232), Victor N. Balancia (Reg. No. 31231), Samuel B. Abrams (Reg. No. 30605), Steven I. Wallach (Reg. No. 35402), Adriane M. Antler (Reg. No. 32605), Thomas G. Rowan (Reg. No. 34419), James G. Markey (Reg. No. 31636), Thomas D. Kohler (Reg. No. 32797), Scott D. Stimpson (Reg. No. 33607), Gary S. Williams (Reg. No. 31066), Ann L. Gisolfi (Reg. No. 31956), Kelly D. Talcott (Reg. No. 39582), Francis D. Cerrito (Reg. No. 38100), Anthony M. Insogna (Reg. No. 35203), Brian M. Rothery (Reg. No. 35340), Brian D. Siff (Reg. No. 35679), Michael J. Lyons (Reg. No. 37386), Nikolaos C. George (Reg. No. 39201), Stephen S. Rabinowitz (Reg. No. 40286), Ognjan V. Shentov (Reg. No. 38051), Kenneth L. Stein (Reg. No. 38704), Nanda K. Alapati (Reg. No. 39,893), Andrew J. Gray (Reg. No. 41,796), Henry C. Lebowitz (Reg. No. 36,196) and Karen G. Horowitz (Reg. No. 35,199), all of Pennie & Edmonds LLP, whose addresses are 1155 Avenue of the Americas, New York, New York 10036, 1667 K Street N.W., Washington, DC 20006 and 3300 Hillview Avenue, Palo Alto, CA 94304, all of Pennie & Edmonds LLP (PTO Customer No. 24341), as its attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventors and their attorney(s) in accordance with the provisions of 37 C.F.R. 3.71, provided that, if any one of these attorneys ceases being affiliated with the law firm of Pennie & Edmonds LLP as partner, counsel, or

POWER OF ATTORNEY

employee, then the appointment of that attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

Please direct all correspondence for this application to customer no. 24341.

I am the:

- Applicant/Inventor  
X Assignee of record of the entire interest. See 37 CFR 3.71.  
(Statement under 37 CFR 3.73(b) is applicable)

Statement Under 37 C.F.R. 3.73(b)

Finisar Corporation states that it is:

- X the assignee of the entire right, title, and interest; or  
an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- X An assignment from the inventor(s) of the patent application/patent identified above.  
The assignment was recorded in the United States Patent and Trademark Office on  
\_\_\_\_\_ at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy  
thereof is attached.

OR

A chain of title from the inventor(s), of the patent application/patent identified above,  
to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office on  
\_\_\_\_\_ at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy  
thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office on  
\_\_\_\_\_ at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy  
thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office on  
\_\_\_\_\_ at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy  
thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments of other documents in the chain of title are attached.

[Note: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

POWER OF ATTORNEY

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date:

10/28/02

ASSIGNEE:

Finisar Corporation

Signature:

[Signature]

Typed Name:

FRANK H. LEVINSON

Position/Title:

CHAIRMAN & CTO

Address:

1308 Moffett Park Drive

Sunnyvale, CA 94089-1133

**WORKMAN  
NYDEGGER**

ATTORNEYS AT LAW

A PROFESSIONAL CORPORATION

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60 EAST SOUTH TEMPLE

SALT LAKE CITY, UTAH 84111

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ROBYN L. PHILLIPS  
RICHARD C. GILMORE†  
STERLING A. BRENNAN†  
GREGORY M. TAYLOR  
DAVID B. DELLENBACH  
R. BURNS ISRAELSEN  
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ADRIAN J. LEE  
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WESLEY C. ROSANDER  
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CHAD E. NYDEGGER  
JOSEPH G. PIA  
CLINTON E. DUKE

† ADMITTED ONLY IN CALIFORNIA

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LICENSING  
COMPLEX LITIGATION

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SALT LAKE CITY, UT 84145

INTERNET  
HOME PAGE: <http://www.wnpatent.com>  
GENERAL E-MAIL: [Info@wnpatent.com](mailto:Info@wnpatent.com)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	Philip D. Shapiro et al.	Art Unit 2828
Serial No.:	10/285,203	
Filing Date:	October 30, 2002	
Confirmation No.:	1614	
For:	SYSTEM FOR CONTROLLING BIAS CURRENT IN LASER DIODES WITH IMPROVED SWITCHING RATES	
Examiner:	Hung T. Vy	

TRANSMITTAL FOR REVOCATION AND SUBSTITUTE POWER OF ATTORNEY

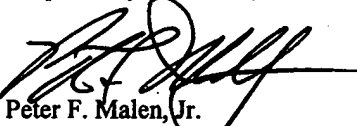
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing is a Revocation and Substitute Power of Attorney. A duplicate copy of this letter is enclosed.

Dated this 25<sup>th</sup> day of November 2003.

Respectfully submitted,



Peter F. Malen, Jr.  
Attorney for Applicant  
Registration No. 45,576  
Customer No. 022913

EXPRESS MAILING LABEL NO. EV 319304735 US

PATENT APPLICATION  
Docket No: 15436.253.72.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	Philip D. Shapiro et al.	Art Unit 2828
Serial No.:	10/285,203	
Filing Date:	October 30, 2002	
Confirmation No.:	1614	
For:	SYSTEM FOR CONTROLLING BIAS CURRENT IN LASER DIODES WITH IMPROVED SWITCHING RATES	

REVOCATION AND SUBSTITUTE  
POWER OF ATTORNEY AND  
STATEMENT UNDER 37 CFR 3.73(b)

Honorable Commissioner of Patents  
and Trademarks  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I, Frank H. Levinson, state that I am Chairman of the Board of Finisar Corporation and that I am authorized to execute this Revocation and Substitute Power of Attorney on behalf of Finisar Corporation.

I further state that Finisar Corporation is the assignee of the entire interest of the above-identified patent or patent application as shown by the assignment(s) recorded in the U.S. Patent and Trademark Office at the Reel and Frame identified in Exhibit A; The assignee, Finisar Corporation, hereby revokes all previous powers of attorney in the above-identified application, which is included in the schedule of U.S. Patents and Patent Applications of Exhibit B, and now hereby appoints all attorneys under customer number:



**022913**

PATENT TRADEMARK OFFICE


of WORKMAN, NYDEGGER & SEELEY, 1000 Eagle Gate Tower, 60 East South Temple, Salt Lake City, Utah 84111, as attorneys with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the Letters Patent, and to transact all business in the Patent and Trademark Office connected therewith.

All correspondence and telephonic communication should be directed to:

ERIC L. MASCHOFF  
WORKMAN, NYDEGGER & SEELEY  
1000 Eagle Gate Tower  
60 East South Temple  
Salt Lake City, Utah 84111

This Revocation and Substitute Power of Attorney and Statement Under 37 CFR 3.73(b) is effective for all of the U.S. Patents and Patent Applications of Exhibit B, and shall be filed at the U.S. Patent & Trademark Office in all of said U.S. Patents and Patent Applications.

Signed this 28 day of May, 2003.

  
\_\_\_\_\_  
Frank H. Levinson  
Finisar Corporation  
1308 Moffet Park Drive  
Sunnyvale, California 94089

## ASSIGNMENT

**WHEREAS, WE, Philip D. Shapiro, Daniel K. Case and The' Linh Nguyen, ASSIGNORS, citizens of the United States, the United States and Canada, residing at 2072 Williams Street, Palo Alto, CA 94306, 1407 Casablanca Circle, Gilroy, CA 95020 and 1650 Via Fortuna, San Jose, CA 95120, are the inventors of the invention in SYSTEM FOR CONTROLLING BIAS CURRENT IN LASER DIODES WITH IMPROVED SWITCHING RATES for which we have executed an application for a Patent of the United States**

which is executed on \_\_\_\_\_ even date herewith or

**X** which is identified by Pennie & Edmonds LLP docket no. 9775-0130-999  
which was filed on , Application No. \_\_\_\_\_

and WHEREAS, Finisar Corporation, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

**AND WE HEREBY** authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Philip D. Shapiro

9/21/2002

Don MacNeil  
Witness:

Date: 9/2/2002

---

**Daniel K. Case**

Date \_\_\_\_\_

**Witness:** \_\_\_\_\_

Date \_\_\_\_\_

---

**The'Linh Nguyen**

Date \_\_\_\_\_

**Witness:** \_\_\_\_\_

Date \_\_\_\_\_

## ASSIGNMENT

WHEREAS, WE, Philip D. Shapiro, Daniel K. Case and The' Linh Nguyen, ASSIGNORS, citizens of the United States, the United States and Canada, residing at 2072 Williams Street, Pal Alto, CA 94306, 1407 Casablanca Circle, Gilroy, CA 95020 and 1650 Via Fortuna, San Jose, CA 95120, are the inventors of the invention in SYSTEM FOR CONTROLLING BIAS CURRENT IN LASER DIODES WITH IMPROVED SWITCHING RATES for which we have executed an application for a Patent of the United States

which is executed on \_\_\_\_\_ even date herewith or \_\_\_\_\_

X which is identified by Pennie & Edmonds LLP docket no. 9775-0130-999  
which was filed on \_\_\_\_\_, Application No. \_\_\_\_\_

and WHEREAS, Finisar Corporation, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

\_\_\_\_\_  
Phillip D. Shapiro

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness:

\_\_\_\_\_  
Date

\_\_\_\_\_  
Daniel K. Case

\_\_\_\_\_  
29 OCT 2002  
Date

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Witness:

\_\_\_\_\_  
10/29/02  
Date

\_\_\_\_\_  
The' Linh Nguyen

\_\_\_\_\_  
Oct. 29, 2002  
Date

\_\_\_\_\_  
Witness:

\_\_\_\_\_  
10/29/02  
Date

**EXHIBIT B**  
**Patents and Patent Applications Subject to Revocations and Substitute Power of Attorney**

Patent No.	Patent Title	Patent No.	Patent Title	Patent No.	Patent Title
15436.253.1	HIGH SPEED MODIFICATION SYSTEM AND METHOD	09/327,997	8-Jun-99	6268608	31-Jul-01
15436.253.2	MULTI-PROTOCOL DUAL FIBER LINK LASER DIODE CONTROLLER AND METHOD	08/924,852	5-Sep-97	5958168	21-Sep-99
15436.253.7	HIGH SPEED NETWORK SWITCH	08/440,088	12-May-95	5604735	18-Feb-97
15436.253.8	INTEGRATED OPTICAL COUPLER AND CONNECTOR	07/189,979	26-May-88	4881789	21-Nov-89
15436.253.9	2X2 OPTICAL BYPASS SWITCH	07/358,892	30-May-89	4927225	22-May-90
15436.253.12	HIGH SPEED INFORMATION BROADCASTING SYSTEM	07/786,453	1-Nov-91	5404505	4-Apr-95
15436.253.13	SEMICONDUCTOR LASER DIODE CONTROLLER AND LASER DIODE BIASING CONTROL METHOD	07/683,178	14-Sep-90	5019769	28-May-91
15436.253.14	HIGH SPEED MESH CONNECTED LOCAL AREA NETWORK	08/404,873	15-Mar-95	5566171	15-Oct-96
15436.253.16	A PRECISION GAAS LOW-VOLTAGE DC AMPLIFIER	09/221,873	23-Dec-98	6121838	19-Sep-00
15436.253.17	A TRANSCIVER WITH AUXILIARY MONITORING PORTS	09/420,947	19-Oct-99		
15436.253.18	FIBER OPTIC LASER TRANSMITTER WITH REDUCED NEAR END REFLECTIONS	09/521,839	8-Mar-00		
15436.253.19.1	SIGNAL STRENGTH DETECTION IN HIGH SPEED OPTICAL ELECTRONICS	10/285,083	31-Oct-02		
15436.253.21	SIGNAL STRENGTH DETECTION IN HIGH-SPEED OPTICAL ELECTRONICS	10/285,106	31-Oct-02		
15436.253.23	COMPACT OPTICAL ASSEMBLY FOR OPTOELECTRONIC TRANSCIVERS	09/957,557	19-Sep-01		
15436.24.1	SYSTEM AND METHOD FOR TRANSMITTING DATA ON RETURN PATH OF A CABLE TELEVISION SYSTEM	09/735,710	12-Dec-00		
15436.253.25.1	A SYNCHRONOUS NETWORK TRAFFIC PROCESSOR	09/876,765	12-Oct-01		
15436.253.26.1	OPTOELECTRONIC DEVICE CAPABLE OF PARTICIPATING IN IN-BAND TRAFFIC	10/003,959	14-Nov-01		
15436.253.28	FIBER OPTIC HEADSET FOR WIRELESS TELEPHONES	09/691,311	17-Oct-00		
15436.253.29	CIRCUIT INTERCONNECT FOR OPTOELECTRONIC DEVICE FOR CONTROLLED IMPEDANCE AT HIGH FREQUENCIES	10/005,924	4-Dec-01		
15436.253.31	MULTI-RATE AND MULTI-LEVEL GIGABIT INTERFACE CONVERTER	09/829,737	31-Aug-01		
15436.253.32	INTEGRATED MEMORY MAPPED CONTROLLER CIRCUIT FOR FIBER OPTICS TRANSCIVERS	09/777,917	5-Feb-01		
15436.253.33	SIGNAL PROCESSING CIRCUIT FOR FLOATING SIGNAL SOURCES USING POSITIVE FEEDBACK	09/825,176	8-Aug-01		
15436.253.35.1	SYSTEM AND METHOD FOR PACKAGING A LASER/DETECTOR	09/823,471	6-Aug-01		
15436.253.37.1	OPTOELECTRONIC TRANSCIVER MODULE WITH THERMALLY ISOLATED COMPONENTS	10/101,247	18-Mar-02		
15436.253.39.1	COMPACT LASER PACKAGE WITH INTEGRATED TEMPERATURE CONTROL	10/101,260	18-Mar-02		

**EXHIBIT B**  
**Patents and Patent Applications Subject to Revocations and Substitute Power of Attorney**

Patent No.	App. No.	Title	Serial	Filed	Pub. No.	Pub. Date
15436.253.40.1	9775-085-899	CONTROL CIRCUIT FOR OPTOELECTRONIC MODULE WITH INTEGRATED TEMPERATURE CONTROL	10/101,248	18-Mar-02		
15436.253.41.1	9775-070-899	BANDPASS COMPONENT DECIMATION AND TRANSMISSION OF DATA IN CABLE TELEVISION DIGITAL RETURN PATH	10/218,344	12-Aug-02		
15436.253.42.1	9775-071-899	DATA RATE COMPRESSION DEVICE FOR CABLE TELEVISION RETURN PATH USING BANDPASS PUNCTURING	10/102,619	3/19/2002		
15436.253.43.1	9775-072-899	APPARATUS AND METHOD FOR COMBINING ASYNCHRONOUS DIGITAL SIGNALS IN CABLE TELEVISION RETURN PATH	10/357,918	3-Feb-03		
15436.253.44.1	9775-073-899	AVALANCHE PHOTODIODE CONTROLLER CIRCUIT FOR FIBER OPTICS TRANSCIVER	10/101,258	18-Mar-02		
15436.253.45	9775-074-899	MULTIPLE WIDTH TRANSCIVER HOST BOARD SYSTEM	10/036,995	22-Oct-01		
15436.253.46.1	9775-075-899	CABLE TELEVISION RETURN LINK SYSTEM WITH DATA-RATE SIDE-BAND COMMUNICATION CHANNELS	10/285,205	30-Oct-02		
15436.253.47.1	9775-078-899	EFFICIENT TRANSMISSION OF DIGITAL RETURN PATH DATA IN CABLE TELEVISION RETURN PATH	10/102,625	19-Mar-02		
15436.253.48	9775-085-899	SYSTEM FOR CONTROLLING BIAS CURRENT IN LASER DIODES WITH IMPROVED SWITCHING RATES	10/188,575	2-Jul-02		
15436.253.48.1	9775-086-899	TRANSMITTER OPTICAL SUBASSEMBLY WITH VOLUME PHASE HOLOGRAPHIC OPTICS	10/351,620	23-Jan-03		
15436.253.50.1	9775-087-899	EXTENDED BANDWIDTH SEMICONDUCTOR OPTICAL AMPLIFIERS	10/348,341	21-Jan-03		
15436.253.51.1	9775-088-899	METHOD FOR MAINTAINING DESIRABLE OPTICAL PERFORMANCE OF LASER EMITTERS OVER TEMPERATURE VARIATIONS	10/285,105	31-Oct-02		
15436.253.52.1	9775-080-899	TRANSISTORS OUTLINE PACKAGE WITH EXTERIORLY MOUNTED RESISTORS	10/393,215	19-Mar-03		
15436.253.53.1	9775-081-899	A SUBMOUNT, PEDESTAL, AND WIRE BOND ASSEMBLY FOR A TRANSISTOR OUTLINE PACKAGE WITH REDUCED WIRE BOND INDUCTANCE	10/393,218	19-Mar-03		
15436.253.54.1	9775-082-899	TRANSPEDANCE AMPLIFIER ASSEMBLY WITH SEPARATE GROUND LEADS AND SEPARATE POWER LEADS FOR INCLUDED CIRCUITS	10/285,204	30-Oct-02		
15436.253.55.1	9775-083-899	A TRANSMISSION LINE WITH INTEGRATED CONNECTION PADS	10/393,164	19-Mar-03		
15436.253.56.1	9775-084-899	CIRCUIT BOARD HAVING TRACES WITH DISTINCT TRANSMISSION IMPEDANCES	10/393,217	19-Mar-03		
15436.253.57	9775-085-899	A SYSTEM AND METHOD OF PROCESSING DATA SIGNAL	10/285,082	31-Oct-02		
15436.253.58.1	9775-086-899	A SYSTEM AND METHOD OF DETECTING A BIT PROCESSING ERROR	10/285,081	31-Oct-02		

**EXHIBIT B**  
**Patents and Patent Applications Subject to Revocations and Substitute Power of Attorney**

Patent No.	Patent Title	Serial No.	Filing Date	Issue Date
15436.253.69.1	APPARATUS FOR ENHANCING EMPEDANCE-MATCHING IN A HIGH-SPEED DATA COMMUNICATIONS SYSTEM	10/285,772	1-Nov-02	
15436.253.60	APPARATUS AND METHOD FOR REDUCING INTERFERENCE IN AN OPTICAL DATA STREAM	10/288,324	5-Nov-02	
15436.253.63	SYSTEM AND METHOD FOR PROTECTING EYE SAFETY DURING OPERATION OF A FIBER OPTIC TRANSMITTER	10/268,869	8-Oct-02	
15436.253.62	OPTICAL TRANSMITTER MODULE WITH A SINGLE INTERNAL SERIAL BUS	10/268,870	8-Oct-02	
15436.253.63	SYSTEM AND METHOD FOR TESTING A LASER MODULE BY MEASURING ITS SIDE MODE SUPPRESSION RATIO	10/248,038	18-Sep-02	
15436.253.64	SIGNAL PROCESSING CIRCUIT FOR FLOATING SIGNAL SOURCES USING POSITIVE FEEDBACK	10/147,877	16-May-02	
15436.253.69.1	DUAL FIBER OPTIC AMPLIFIER WITH SHARED PUMP SOURCE	10/384,228	7-Mar-03	
15436.253.70.1	STAGED AMPLIFIER FOR LOWER NOISE FIGURE AND HIGHER SATURATION POWER	10/384,227	7-Mar-03	
15436.253.72.1	SYSTEM FOR CONTROLLING BIAS CURRENT IN LASER DIODES WITH IMPROVED SWITCHING RATES	10/285,203	30-Oct-02	
15436.253.76	MAINTAINING DESIRABLE PERFORMANCE OF OPTICAL EMITTERS AT EXTREME TEMPERATURES	10/285,369	31-Oct-02	
15436.253.79	EFFICIENT TRANSMISSION OF DIGITAL RETURN PATH DATA IN CABLE TELEVISION RETURN PATH	10/291,208	8-Nov-02	
15436.253.81	METHOD AND APPARATUS FOR REDUCING INTERFERENCE IN AN OPTICAL DATA STREAM USING DATA-INDEPENDENT EQUALIZATION	10/419,023	17-Apr-03	

9775-130-999

MARCH 04, 2003

PTAS

Chief Information Officer  
Washington, DC 20231  
www.uspto.gov

PENNIE & EDMONDS LLP  
GARY S. WILLIAMS  
3300 HILLVIEW AVENUE  
PALO ALTO, CA 94304



\*102274325A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/30/2002

REEL/FRAME: 013452/0163  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SHAPIRO, PHILIP D.✓

DOC DATE: 09/21/2002

ASSIGNOR:

CASE, DANIEL K.✓

DOC DATE: 10/29/2002

ASSIGNOR:

NGUYEN, THE' LINH ✓

DOC DATE: 10/29/2002

ASSIGNEE:

FINISAR CORPORATION ✓  
1308 MOFFETT PARK DRIVE  
SUNNYVALE, CALIFORNIA 94089-1133

SERIAL NUMBER: 10285203 ✓  
PATENT NUMBER:

FILING DATE: 10/30/2002 ✓  
ISSUE DATE:

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9775-0130-999

102274325

THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS

Box Assignment  
Washington, DC 20231

Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Philip D. Shapiro, Daniel K. Case and The' Linh Nguyen

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: September 21, 2002 and October 29, 2002 respectively

## 2. Name and address of receiving party(ies):

Name: Finisar CorporationAddress: 1308 Moffett Park DriveSunnyvale, CA 94089-1133

Country (if other than USA): \_\_\_\_\_

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: October 29, 2002

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

PENNIE & EDMONDS LLP  
3300 Hillview Avenue  
Palo Alto, CA. 943046. Number of applications and patents involved: 17. Total fee (37 CFR 3.41): .....\$ 40.00  
Please charge to the deposit account listed in Section 8.8. Deposit account number:  
16-1150

DO NOT USE THIS SPACE

## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Gary S. Williams

Name of Person Signing

31,066

Reg. No.

Signature

October 30, 2002

Date

Total number of pages including cover sheet:

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Documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignment  
Washington, D.C. 202311011 U.S. PRO  
10/285203

10/30/02

## ASSIGNMENT

WHEREAS, WE, Philip D. Shapiro, Daniel K. Case and The' Linh Nguyen, ASSIGNORS, citizens of the United States, the United States and Canada, residing at 2072 Williams Street, Palo Alto, CA 94306, 1407 Casablanca Circle, Gilroy, CA 95020 and 1650 Via Fortuna, San Jose, CA 95120, are the inventors of the invention in SYSTEM FOR CONTROLLING BIAS CURRENT IN LASER DIODES WITH IMPROVED SWITCHING RATES for which we have executed an application for a Patent of the United States

which is executed on \_\_\_\_\_ even date herewith or \_\_\_\_\_

X which is identified by Pennie & Edmonds LLP docket no. 9775-0130-999  
which was filed on , Application No.

and WHEREAS, Finisar Corporation, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

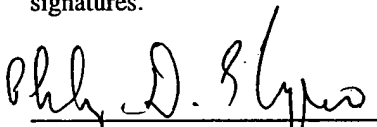
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

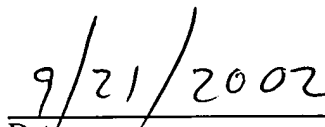
AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

  
Philip D. Shapiro

  
Date

  
Witness:

  
Date

\_\_\_\_\_  
Daniel K. Case

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness:

\_\_\_\_\_  
Date

\_\_\_\_\_  
The' Linh Nguyen

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness:

\_\_\_\_\_  
Date

## ASSIGNMENT

WHEREAS, WE, Philip D. Shapiro, Daniel K. Case and The' Linh Nguyen, ASSIGNORS, citizens of the United States, the United States and Canada, residing at 2072 Williams Street, Pal Alto, CA 94306, 1407 Casablanca Circle, Gilroy, CA 95020 and 1650 Via Fortuna, San Jose, CA 95120, are the inventors of the invention in SYSTEM FOR CONTROLLING BIAS CURRENT IN LASER DIODES WITH IMPROVED SWITCHING RATES for which we have executed an application for a Patent of the United States

which is executed on \_\_\_\_\_ even date herewith or \_\_\_\_\_

X which is identified by Pennie & Edmonds as docket no. 9775-0130-999  
which was filed on \_\_\_\_\_, Application No. \_\_\_\_\_

and WHEREAS, Finisar Corporation, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

\_\_\_\_\_  
Philip D. Shapiro

\_\_\_\_\_  
Date

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Witness:

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Date

\_\_\_\_\_  
Daniel K. Case

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29 OCT 2002  
Date

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Witness:

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10/29/02  
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\_\_\_\_\_  
The' Linh Nguyen

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Oct. 29, 2002  
Date

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Witness:

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10/29/02  
Date